

**UKMT Team Maths Challenge**  
**Round One cross-number answer grid**

square	Aa	Ab	Ac	Ad	Af	Ag	Ah	Ai	Ba	Bb	Bd	Be	Bf	Bh	Bi
Team's answer															
Supervisor tick or cross															

total

square	Ca	Ce	Ci	Da	Db	Dd	De	Df	Dh	Di	Eb	Ec	Ed	Ef	Eg
Team's answer															
Supervisor tick or cross															

total

square	Eh	Fa	Fb	Fd	Fe	Ff	Fh	Fi	Ga	Ge	Gi	Ha	Hb	Hd	He
Team's answer															
Supervisor tick or cross															

total

square	Hf	Hh	Hi	Ia	Ib	Ic	Id	If	Ig	Ih	Ii
Team's answer											
Supervisor tick or cross											

total

TOTAL SCORE

	a	b	c	d	e	f	g	h	i
A	1	2 <b>8</b>		3		4 <b>3</b>		5	6
B	7	<b>2</b>		8	9	<b>1</b>		10	
C									
D	11	12		13		14		15	
E		16				17			
F	18			19	20			21	22
G									
H	23	24		25		26		27 <b>1</b>	<b>3</b>
I	28					29		<b>0</b>	

Across

- 1 Four times 8-across
- 4 Twice 28-across
- 7 Twice 25-down
- 8 Square of 4-down
- 10 Four times 27-down
- 11 See 17-across
- 13 Sum of 25-across and 27-across
- 15 One-and-a-half times 27-down
- 16 Twice 17-across
- 17 Product of 11-across and 27-across
- 18 See 12-down
- 19 Square of 15-across
- 21 See 2-down
- 23 Three times 15-across
- 25 Square of 27-across
- 27 See 25-across
- 28 Square of 21-across
- 29 Multiply the sum of 3-down  
and 26-down by 27-down

	a	b	c	d	e	f	g	h	i
A	1	2 <b>8</b>		3		4 <b>3</b>		5	6
B	7	<b>2</b>		8	9	<b>1</b>		10	
C									
D	11	12		13		14		15	
E		16				17			
F	18			19	20			21	22
G									
H	23	24		25		26		27 <b>1</b>	<b>3</b>
I	28					29		<b>0</b>	

#### Down

- 1 Twice 18-down
- 2 Twice 21-across
- 3 A square number
- 4 See 8-across
- 5 Sum of 15-across and 3-down
- 6 Square of 23-across
- 9 Three times 20-down
- 12 Product of 18-across and 21-across
- 13 Sum of 4-down and 26-down
- 14 Sum of 19-across and 27-down
- 15 Six times 18-across
- 18 Subtract 10-across from 28-across
- 20 Divide 22-down by five
- 22 Sum of 8-across and 25-across
- 24 Sum of 15-across and 21-across
- 25 See 7-across
- 26 Seven times 27-across
- 27 See 10-across

	a	b	c	d	e	f	g	h	i
A	<sup>1</sup> 3	<sup>2</sup> 8	4	<sup>3</sup> 4		<sup>4</sup> 3	3	<sup>5</sup> 6	<sup>6</sup> 2
B	<sup>7</sup> 2	2		<sup>8</sup> 9	<sup>9</sup> 6	1		<sup>10</sup> 4	0
C	8				7				2
D	<sup>11</sup> 2	<sup>12</sup> 7		<sup>13</sup> 1	8	<sup>14</sup> 2		<sup>15</sup> 1	5
E		<sup>16</sup> 7	0	2		<sup>17</sup> 3	5	1	
F	<sup>18</sup> 1	9		<sup>19</sup> 2	<sup>20</sup> 2	5		<sup>21</sup> 4	<sup>22</sup> 1
G	6				2				1
H	<sup>23</sup> 4	<sup>24</sup> 5		<sup>25</sup> 1	6	<sup>26</sup> 9		<sup>27</sup> 1	3
I	<sup>28</sup> 1	6	8	1		<sup>29</sup> 1	4	0	0

#### Across

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- 7 Twice 25-down
- 8 Square of 4-down
- 10 Four times 27-down
- 11 See 17-across
- 13 Sum of 25-across and 27-across
- 15 One-and-a-half times 27-down
- 16 Twice 17-across
- 17 Product of 11-across and 27-across
- 18 See 12-down
- 19 Square of 15-across
- 21 See 2-down
- 23 Three times 15-across
- 25 Square of 27-across
- 27 See 25-across
- 28 Square of 21-across
- 29 Multiply the sum of 3-down and 26-down by 27-down

#### Down

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